GRADIENT-FUNCTIONAL MOLDED MATERIAL AND SINTERED PRODUCT THEREFROM

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Abstract of **JP 7025658 (A)**

PURPOSE:To obtain the molded material through specific modes using plural particle groups differing in particle diameter from one another to enable large- sized molded products with continuously gradient diversified composition and sintered products thereof to be produced at a low cost. CONSTITUTION:; At least two kinds of particle groups differing in particle diameter from one another where the mean particle diameter ratio for the groups of greater particle size and the group of the minimum mean particle size is <=1/5 and the corresponding volume ratio >=2 is mixed with water into a slip >=30wt.% in solid concentration, which is then cast into a porous mold to produce a molded form with the composition ratio for the different particle groups altered in a continuous way, thus obtaining the molded material, which is composed of two or more kinds of particle groups whose composition ratio is continuously altered at least unidirectionally.